

SECRET

28 MAY 71 18z

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1. ANALYSIS OF OLD HEAD PHOTOGRAPHY DATED 12 MAY 1971 REVEALS A NEW HF (HIGH FREQUENCY) PROBABLE COMMUNICATIONS ANTENNA OF UNIQUE CONFIGURATION AT THE BAUTA INTERNATIONAL RADIO BROADCASTING AND TRANSMITTING STATIONS LOCATED APPROXIMATELY 15 NM SOUTHWEST OF HAVANA CUBA AT 225700N 0823244W.

2. THE ANTENNA WHICH IS CURRENTLY UNDER CONSTRUCTION CONSISTS OF A LARGE, SQUARE, SELF-SUPPORTING TOWER THAT IS ABOUT 40 FT ON A SIDE AND APPROXIMATELY 250 FT HIGH. EIGHT BROADBAND SHUNTED DIPOLE ELEMENTS ARE POSITIONED VERTICALLY ON EACH OF TWO SIDES AND POSSIBLY A THIRD SIDE OF THE TOWER. THE ANTENNA ELEMENTS APPEAR TO BE ARRANGED IN TWO BANKS OF FOUR EACH. THE ORIENTATIONS OF EACH SIDE OF THE TOWER

ANTENNA SUPPORT BRACES ARE ON THE GROUND NEAR THE TOWER AND ARE PROBABLY INTENDED FOR THE FOURTH SIDE OF THE TOWER.

3. THE TOWER FOOTINGS WERE FIRST SEEN UNDER CONSTRUCTION IN JANUARY 1970 AND CAN BE DATED IN JULY 1969. TWO OF THE ANTENNA ELEMENTS WERE FIRST SEEN ON THE GROUND IN APRIL 1971. BY MAY 1971 ANTENNA ELEMENTS WERE PRESENT ON AT LEAST TWO SIDES OF THE TOWER. THIS IS THE FIRST OBSERVATION OF AN ANTENNA WITH THIS CONFIGURATION IN CUBA. THE ANTENNA ELEMENTS APPEAR TO BE OF SOVIET DESIGN.

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